

AMENDMENTS TO THE CLAIMS

What is claimed is:

- 5 1. (Currently Amended) A continuous manufacturing system for composite aluminum panels comprising;
- a continuous expanding device for expanding raw material of a core comprising:
- a first cramp for holding raw material before expansion for manufacturing a honeycomb type core, which is disposed at a right part of a raw material supplier;
- 10 the raw material supplier comprising:
- a pusher for pushing raw material having a number of U type grooves , wherein the pusher is fixed on an right upper end of □ type brackets;
- a plurality of sliding rods installed from the raw material supplier to a vicinity of a transferring roller for sliding raw material for the core;
- 15 a subsidiary cramp for holding fixedly a right side of the core, which is disposed at the right part of the first cramp, the subsidiary cramp reciprocating from side to side on racks, by means of a cylinder and simultaneously ascends and descends by means of perpendicular cylinders;
- a second cramp for expanding the raw material for the core to a right side of a main body, which is disposed at the right part of the subsidiary cramp, the second cramp reciprocating from side to side by means of a cylinder and ascends and descends by means of perpendicular cylinders;
- 20 the transferring roller running idle for transferring an expanded core by cooperating the second cramp, which is situated at the right side of the main body;
- 25 the main body comprising:
- a first supplying part for providing upper and lower sides of the expanded honeycomb type core with top and bottom aluminum plates by passing through rollers from upper and lower rollers;
- a second supplying part for providing adhering materials, which is disposed

between the upper and lower rollers,

a combination part for combining the aluminum plates, the adhering materials and the expanded honeycomb type core, which includes the upper and lower rollers;

5 a hot pressing part for pressing composite aluminum panels supplied from the combination part, the hot pressing part comprising:

upper and lower hot pressings;

supporting rollers; and

a finishing part comprising:

a quick cooling apparatus;

10 a slow cooling apparatus;

an adhering roller for protecting tape;

a side cutter for cutting sides of completed panel; and

15 a roller for pinching the completed panel established in sequence behind the hot pressing part.

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2. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said first cramp comprises perpendicular cylinders for ascending and descending the first cramp, a cylinder for reciprocating from side to side on racks established on an upper part of the main body and 20 an outer end mounted on a perpendicular plate of said main body.

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3. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said raw material supplier is mounted on a perpendicular plate fixed on an upper end of the main body and reciprocated from side to side by means of cylinders connected with lower ends of the brackets.

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4. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which a front side of a most outer rod of said plurality of sliding rods for sliding raw material for the core is connected with a centering handle controlling a position in a front and in the rear, and their right and left

ends are mounted on the grooves of said pusher and on a length-wise supporter provided under the transferring roller which mounted on the right end of the expanding device, respectively.

5 5. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which said supplying part for providing adhering materials comprises any one device selected from a device for providing hot-melt films, rollers, providing film, an applicator spraying hot melting thermoplastic resin adhesive and a device for spraying liquid thermosetting resin adhesive.

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6. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 5 in which said hot melting thermoplastic resin adhesive is made from thermoplastic resins selected from polyethylene, polyisobutylene, polyamide, ethylene vinyl acetate copolymer and polyurethane.

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7. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 5 in which said liquid thermosetting resin adhesive made from thermosetting resins selected from epoxy or phenol resin.

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8. (Currently Amended) A continuous manufacturing system for composite aluminum panels in accordance with claim 1 in which between, before or behind the combination part and the hot pressing part, a thickness controlling part consisting of rollers for controlling thickness, and a side supporting part for supporting sides of a completed panel are provided.

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